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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/803,936	03/19/2004	Naokazu Kuzuno	250755US2S	6740
22850	7590	05/13/2005	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.				LE, THONG QUOC
1940 DUKE STREET				
ALEXANDRIA, VA 22314				
				ART UNIT
				PAPER NUMBER
				2827

DATE MAILED: 05/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SJM

Office Action Summary	Application No.	Applicant(s)	
	10/803,936	KUZUNO ET AL.	
	Examiner	Art Unit	
	Thong Q. Le	2827	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on ____.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) ____ is/are withdrawn from consideration.

5) Claim(s) ____ is/are allowed.

6) Claim(s) 1-20 is/are rejected.

7) Claim(s) ____ is/are objected to.

8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 03/19/04

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____

DETAILED ACTION

1. Claims 1-20 are presented for examination.

Information Disclosure Statement

2. This office acknowledges receipt of the following items from the Applicant:
Information Disclosure Statement (IDS) filed on 03/19/2004.
3. Information disclosed and list on PTO 1449 was considered.

Priority

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

5. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190

USPQ 15 (CCPA 1976) and Kropa v. Robie, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

As explained above, the preamble is not accorded any patentable weight. Therefore, claims 7-12 become repeated claims with claim 1.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Tamaki (U.S. Patent No. 6,205,050).

Regarding claim 1, Tamaki discloses a redundancy fuse circuit (Figure 1) for replacing a defective cell (Column 1, lines 13-17) in a memory cell array with a redundancy column, comprising:

fuse circuit (Figure 3, Column 2, lines 5-30, ABSTRACT) in which an address of the defective cell or a block including the defective cell is programmed as a defective address by presence/ absence of cut-off fuse device (Column 5, lines 16-23);

a data latch circuit which latches a signal supplied from a tester to program the defective address dummy manner (Column 1, lines 53-60); and

a comparator which replaces the defective cell with the redundancy cell based on an address signal supplied from the tester and an output signal the data latch circuit at a test time of the redundancy fuse circuit (Figure 2A, 12, Column 1, lines 53-67).

Regarding claim 2, Tamaki disclose wherein the memory cell array (Figure 1, 16) comprises a redundancy row including the redundancy cell (16b), and the defective address is a defective row address or an address a block including the defective row (Column 1, lines 53-60, Column 6, lines 54-60), and wherein the memory cell array comprises a redundancy column including the redundancy cell, and the defective address is a defective column address or an address of a block including the defective column (Column 1, lines 53-60, Column 6, lines 54-60), and a logic circuit which supplies the output signal comparator at the test time and which supplies the output signal of the fuse circuit to the comparator at usual operation time (Figure 9A, 30A, Column 6, lines 49-67, Column 7, lines 1-17), and wherein the fuse device is of type that cut by laser (ABSTRACT, Figure 3B), and wherein the fuse device is an electric fuse capable of being electrically cut off (Column 1, lines 39-52).

Regarding claims 13-20, the apparatus discussed above would perform the method claims 13-20.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai V. Ho can be reached on 571-272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Thong Q. Le
Primary Examiner
Art Unit 2827

THONG LE
PRIMARY EXAMINER